PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002CH011 International application No. PCT/IB 03/05096				FOR FURTHER	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
				International filing date (day/month/year) 11.11.2003		Priority date (day/month/year) 13.11.2002			
	rnation 9B29/		ent Classification (IPC) o	or both national classification	n and IPC				
	licant ARIAI	NT IN	ITERNATIONAL LT	D et al.					
1.	This Auth	inter nority	national preliminary e and is transmitted to t	xamination report has be the applicant according t	een prepared by to o Article 36.	his International Preliminary Examining			
2.	This	REP	ORT consists of a total	al of 5 sheets, including	this cover sheet.				
• •	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.								
	1116:	se an	nexes consist of a tota	ai of sneets.					
3.	This	repo	rt contains indications	relating to the following	items:				
	ı	\boxtimes	Basis of the opinion						
	II		Priority			•			
	Ш		Non-establishment	of opinion with regard to	novelty, inventive	step and industrial applicability			
	IV		Lack of unity of inve		•				
	٧	\boxtimes	Reasoned statement citations and explan	t under Rule 66.2(a)(ii) vations supporting such s	vith regard to nov	elty, inventive step or industrial applicability;			
	VI		Certain documents	cited					
	VII		Certain defects in th	e international application	ก				
	VIII		Certain observations	s on the international app	olication				
Date	of sub	missic	n of the demand		Date of completi	on of this report			
30.03.2004					25.11.2004				
Name	e and i	mailing	address of the internati	onal	Authorized Offic				
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					Härtinger, S	John Palana, Friday, Care Company			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/05096

I.	Bas	sis	of	the	rei	oort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Doc	scription, Pages					
	1-3		as originally filed				
	1-0	3	as originally med				
	Claims, Numbers						
	1-10	O	as originally filed				
2.	Witl lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.				
	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a tra	unslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 						
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
	☐ furnished subsequently to this Authority in written form.						
		furnished subsequer	ntly to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosu in the international application as filed has been furnished.					
•		The statement that the listing has been furni	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this				
6.	Add	itional observations, i	f necessary:				

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No:

1-10

Inventive step (IS)

Yes: Claims

Claims

No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

The invention relates to mono azo dyestuffs of the formula (I) according to claims 1. 1-5, certain matter comprising the same (claims 6, 9-10) and the use of the same for dyeing (claims 7-8).

The relevant prior art has been cited in the European search report.

D1: DE-A-34 33 957; D2: JP-A-2002 309117; D3: EP-A-0 331 170;

D4: GB-A-1 413 315; D5: FR-A-2 387 267; D6:CH-A-584 747.

2. The claimed compounds represent a selection of what has been disclosed in D1 (cf. page 2 and group K in the meaning of the first formula given in line 15), D2 (cf. claim 1 and formula (1)), D3 (cf. formula (I) and claim 1) and D4 (cf. claim 1). However, in view of the proviso at the and of present claim 1, all of the specifically individualised embodiments of the prior art, have been excluded from the scope of the claim. Hence, the present compounds are considered to represent a novel selection with respect to D1-D4. As to D5, the amino pyrazole coupling component has not been individualised. As to D6, the benzothiazole component is absent.

In view of the above, the claimed matter appear to have met the novelty requirement of Art. 33(2) PCT.

3. Inventive step:

The technical problem underlying the invention is regarded to be the provision of dyestuff which is suitable for ink jet applications. D1 to D4 represent the most pertinent prior art. Starting from these documents, the skilled person is aware that the products obtained from the coupling of the 2-amino-benzothiazol with the Nphenyl-3-methyl-5-amino-pyrazoles result in valuable dyestuffs, since both components are well established coupling components. Thus, it is readily seen from D3, D4 and D6 that pyrazoles, which are substituted at the N-phenyl moiety, do not alter the colorant properties. Likewise, it is seen from D3, that the 3-methyl group sticking to the pyrazole ring may be altered, such that the compound 17 of D3 is an obvious equivalent to a compound falling under the present claim. That is to say the replacement of the ethyl group in the said compound 17 through a methyl group is an obvious further embodiment of what has already been specifically disclosed in D3. Likewise, starting from the substituted pyrazoles coupling components of D3, D4 and D6 the skilled person would have expected the coupling products with 2-amino-benzothiazoles to be likewise suitable dyestuffs, al the more as D5 stipulates that the coupling with ordinary aminopyrazoles result in this kind of dyestuff (see page 1, lines 5-20). It is therefore not

feasible in how far the present proviso, which renders the claims novel, could also contribute to the inventiveness of the presently selected products. In the absence of any technical effect, which immediately is contributable to the selected portion (i.e. the requirement of R5-R9 having at least one non-hydrogen substituent), the claimed matter does not appear to meet the requirements of Art. 33(3) PCT.